

The image shows a large, abstract graphic composed of black text characters on a white background. The characters used are 'S' for the main trunk and branches, 'Y' for smaller branches, and 'SS' for leaves. The graphic is shaped like a tree with a thick trunk on the left, several main branches extending to the right, and many smaller leafy branches at the top and right edges. The style is minimalist and geometric.

\*\*FILE\*\*ID\*\*SYSCANCEL

F 3

SYS  
V04

SS	SSSSSSSS	YY	YY	YY	SSSSSSSS	CCCCCCCC	AAAAAA	NN	NN	CCCCCCCC	EEEEEEEEE	LL
SS	SSSSSSSS	YY	YY	YY	SS	CCCCCCCC	AA	NN	NN	CC	EE	LL
SS	SS	YY	YY	YY	SS	CC	AA	NNNN	NN	CC	EE	LL
SS	SS	YY	YY	YY	SS	CC	AA	NNNN	NN	CC	EE	LL
SS	SSSSSS	YY	YY	YY	SSSSSS	CC	AA	NN	NN	CC	EEEEEEEEE	LL
SS	SSSSSS	YY	YY	YY	SSSSSS	CC	AA	NN	NN	CC	EEEEEEEEE	LL
SS	SS	YY	YY	YY	SS	CC	AAAAAAA	NN	NNNN	CC	EE	LL
SS	SS	YY	YY	YY	SS	CC	AAAAAAA	NN	NNNN	CC	EE	LL
SS	SS	YY	YY	YY	SS	CC	AA	NN	NN	CC	EE	LL
SS	SS	YY	YY	YY	SS	CC	AA	NN	NN	CC	EE	LL
SS	SSSSSS	YY	YY	YY	SSSSSS	CCCCCCCC	AA	NN	NN	CCCCCCCC	EEEEEEEEE	LLLLLLLL
SS	SSSSSS	YY	YY	YY	SSSSSS	CCCCCCCC	AA	NN	NN	CCCCCCCC	EEEEEEEEE	LLLLLLLL

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	IIIIII	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

(1) 85 CANCEL I/O ON CHANNEL

0000 1 .TITLE SYSCANCEL - SYSTEM SERVICE CANCEL I/O ON CHANNEL  
0000 2 .IDENT 'V04-000'  
0000 3 :  
0000 4 :  
0000 5 :\*\*\*\*\*  
0000 6 :\*  
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0000 26 :\*\*\*\*\*  
0000 27 :  
0000 28 : D N. CUTLER 4-AUG-77  
0000 29 :  
0000 30 : SYSTEM SERVICE CANCEL I/O ON CHANNEL  
0000 31 :  
0000 32 : MODIFIED BY:  
0000 33 :  
0000 34 : V03-005 CDS0001 Christian D. Saether 20-July-1984  
0000 35 : Don't do the acpcontrol function for disk devices.  
0000 36 :  
0000 37 : V03-004 LMP0251 L. Mark Pilant, 9-May-1984 12:48  
0000 38 : Correct a bug in WMC0001 so that the correct base register  
0000 39 : is used to lock down the CCB.  
0000 40 :  
0000 41 : V03-003 WMC0001 Wayne Cardoza 16-Apr-1984  
0000 42 : Don't touch CCB above IPL 2.  
0000 43 :  
0000 44 : V03-002 ROW0136 Ralph O. Weber 25-OCT-1982  
0000 45 : Change event flag number in hand crafted IOS\_ACPCONTROL IRP  
0000 46 : from #31 to #EXESC\_SYSEFN, it symbolic equivalent.  
0000 47 :  
0000 48 : V03-001 KDM0002 Kathleen D. Morse 28-Jun-1982  
0000 49 : Added \$SSDEF.  
0000 50 :  
0000 51 :\*\*  
0000 52 :  
0000 53 : MACRO LIBRARY CALLS  
0000 54 :  
0000 55 :  
0000 56 : \$CADEF :DEFINE CONDITIONAL ASSEMBLY PARAMETERS  
0000 57 : \$CANDEF :DEFINE CANCEL REASON CODES

0000	58	\$CCBDEF	;DEFINE CCB OFFSETS
0000	59	\$DCDEF	;DEFINE DEVICE CLASS CONSTANTS
0000	60	\$DDBDEF	;DEFINE DDB OFFSETS
0000	61	\$DDTDEF	;DEFINE DDT OFFSETS
0000	62	\$DEVDEF	;DEFINE DEVICE CHARACTERISTIC BITS
0000	63	\$DYNDEF	;DEFINE DATA STRUCTURE TYPE CODES
0000	64	\$IODEF	;DEFINE I/O FUNCTION CODES
0000	65	\$IPLDEF	;DEFINE INTERRUPT PRIORITY LEVELS
0000	66	\$IRPDEF	;DEFINE IRP OFFSETS
0000	67	\$PCBDEF	;DEFINE PCB OFFSETS
0000	68	\$PRDEF	;DEFINE PROCESSOR REGISTERS
0000	69	\$RSNDEF	;DEFINE RESOURCE WAIT NUMBERS
0000	70	\$SSDEF	;DEFINE SYSTEM STATUS CODES
0000	71	\$UCBDEF	;DEFINE UCB OFFSETS
0000	72	\$VCBDEF	;DEFINE VCB OFFSETS
0000	73	\$WCBDEF	;DEFINE WCB OFFSETS
0000	74		
0000	75	:	
0000	76	: LOCAL SYMBOLS	
0000	77	:	
0000	78	: ARGUMENT LIST OFFSET DEFINITIONS	
0000	79	:	
0000	80		
00000000	0000	81 NARG=0	;NUMBER OF ARGUMENTS PASSED
00000004	0000	82 CHAN=4	;I/O CHANNEL NUMBER
00000008	0000	83 CODE=8	;SPECIAL CANCEL CODE

```

0000 85 .SBTTL CANCEL I/O ON CHANNEL
0000 86 :+
0000 87 :+ EXE$CANCEL - CANCEL I/O ON CHANNEL
0000 88 :+ EXE$CANCELN - CANCEL I/O ON CHANNEL WITH REASON CODE
0000 89 :+
0000 90 : THIS SERVICE CANCELS ALL I/O ISSUED TO A DEVICE FROM THE SPECIFIED CHANNEL.
0000 91 :+
0000 92 : INPUTS:
0000 93 :+
0000 94 : CODE(AP) = REASON CODE FOR CANCEL CALL (EXE$CANCELN ONLY).
0000 95 : CHAN(AP) = NUMBER OF THE I/O CHANNEL TO CANCEL I/O FOR.
0000 96 : NARG(AP) = NUMBER OF ARGUMENTS PASSED (EXE$CANCELN ONLY).
0000 97 :+
0000 98 : R4 = CURRENT PROCESS PCB ADDRESS.
0000 99 :+
0000 100 : OUTPUTS:
0000 101 :+
0000 102 : RO LOW BIT CLEAR INDICATES FAILURE TO CANCEL I/O.
0000 103 :+
0000 104 : SSS_EXQUOTA - DIRECT I/O QUOTA EXCEEDED WHILE TRYING TO
0000 105 : CANCEL FILE I/O.
0000 106 :+
0000 107 : SSS_INSMEM - INSUFFICIENT MEMORY AVAILABLE TO ALLOCATE I/O
0000 108 : PACKET.
0000 109 :+
0000 110 : SSS_IVCHAN - INVALID CHANNEL NUMBER SPECIFIED.
0000 111 :+
0000 112 : SSS_NOPRIV - SPECIFIED CHANNEL IS NOT ASSIGNED TO A DEVICE
0000 113 : OR THE CALLER DOES NOT HAVE SUFFICIENT PRIVILEGE TO
0000 114 : ACCESS THE CHANNEL.
0000 115 :+
0000 116 : RO LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0000 117 :+
0000 118 : SSS_NORMAL - NORMAL COMPLETION.
0000 119 :-
0000 120 :+
0000 121 :.ENABL LSB
0000 122 :+
0000 123 :.ENTRY EXE$CANCELN,^M<R2,R3,R4,R5,R6,R7,R8>
0000 124 :ASSUME CANSC_CANCEL EQ 0
01FC 0002 125 :CLRL R8 ;ASSUME NO REASON CODE
58 D4 0002 126 :+
0004 127 : We do not check access to argument list here - since this is a
0004 128 : VMS internal entry point.
0004 129 :+
0000 130 :CMPB S^#2,NARG(AP) ;REASON CODE GIVEN?
0000 131 :BNEQ $S ;IF NEQ - NO REASON CODE
58 08 AC 0007 132 :MOVL CODE(AP),R8 ;ELSE, GET REASON CODE
04 02 91 0004 133 :BRB $S ;JOIN COMMON CODE
000F 134 :+
0000 135 :.ENTRY EXE$CANCEL,^M<R2,R3,R4,R5,R6,R7,R8>
0000 136 :ASSUME CANSC_CANCEL EQ 0
01FC 000F 137 :CLRL R8 ;NEVER A REASON CODE FOR OLD CANCEL
58 D4 0011 138 :MOVZWL CHAN(AP),RO ;GET I/O CHANNEL NUMBER
0004 AC 3C 0009 139 :JSB IOCSVERIFYCHAN ;VERIFY I/O CHANNEL NUMBER
00000000'EF 16 0017 140 :BLBC R0,50$ ;IF LBC INVALID CHANNEL
66 50 E9 001D 141 :MOVL R2,R7 ;SAVE CHANNEL INDEX
57 52 DD 0020 141 :

```

56 51 DO 0023 142  
 55 66 DO 0026 143  
 7E 7E DC 0029 144 10\$: MOVL R1,R6 :SAVE ADDRESS OF CCB  
 002B 145 MOVL CCB\$L\_UCB(R6),RS :GET ASSIGNED DEVICE UCB ADDRESS  
 002E 146 MOVPSL -(SP) :SAVE CURRENT PROCESSOR STATUS  
 7E 0A A6 80 002E 147 SETIPL #IPL\$\_ASTDEL :RAISE TO AST DELIVERY LEVEL  
 OA A6 0B A5 90 0032 148 ASSUME CCB\$K\_LENGTH EQ 16 :MAKE SURE CCB IS PAGE ALIGNED  
 0037 149 MOVW CCB\$W\_IOC(R6) -(SP) :WE NEED A SPOT FOR IPL - SAFE AT IPL 2  
 0A A6 8E B0 003B 150 MOVB UCBSB\_FIPL(R5),CCB\$W\_IOC(R6) :THE SETIPL WILL LOCK THE CCB  
 49 13 003F 151 SETIPL CCB\$W\_IOC(R6) :RAISE TO DRIVER FORK IPL  
 53 4C A5 9E 0041 152 MOVW (SP)+,CCB\$W\_IOC(R6) :ANY I/O OUTSTANDING? - RESTORE CCB  
 52 53 DO 0045 153 BEQL 70\$ :IF EQL NO  
 52 62 DO 0048 154 20\$: MOVAB UCBSL\_IOQFL(R5),R3 :GET ADDRESS OF I/O QUEUE LISTHEAD  
 53 52 D1 0048 155 MOVL R3,R2 :COPY ADDRESS OF I/O QUEUE LISTHEAD  
 3A 13 004E 156 CMPL IRPSL\_IOQFL(R2),R2 :GET ADDRESS OF NEXT I/O PACKET IN QUEUE  
 BEQL 70\$ :END OF QUEUE?  
 F3 2A A2 04 E0 0050 157 BBS #IRPSV\_VIRTUAL,IRPSW\_STS(R2),20\$ :IF SET, VIRTUAL I/O REQUEST  
 60 A4 0C A2 D1 0055 158 CMPL IRPSL\_PID(R2),PCBSL\_PID(R4) :PROCESS ID MATCH?  
 EC 12 005A 159 BNEQ 20\$ :IF NEQ NO  
 28 A2 57 B1 005C 160 CMPW R7,IRPSW\_CHAN(R2) :I/O CHANNEL NUMBER MATCH?  
 E6 12 0060 161 BNEQ 20\$ :IF NEQ NO  
 52 04 A2 DO 0062 162 MOVL IRPSL\_IOQBL(R2),R2 :GET BACKWARD LINK OF CURRENT ENTRY  
 51 00 B2 OF 0066 163 REMQUE @IRPSL\_IOQFL(R2),R1 :REMOVE I/O PACKET FROM QUEUE  
 04 2A A1 00 E1 006A 164 BBC #IRPSV\_BUFI0,IRPSW\_STS(R1),30\$ :IF CLR, DIRECT I/O REQUEST  
 2A A1 02 AA 006F 165 BICW #IRPSM\_FUNC,IRPSW\_STS(R1) :CLEAR BUFFERED READ  
 38 A1 0830 8F 3C 0073 166 30\$: MOVZWL #SSS\_CANCEL,IRPSL\_MEDIA(R1) :SET COMPLETION STATUS  
 0000'DF 61 0E 0079 167 INSQUE IRPSL\_IOQFL(R1),@Q^IOC\$GL\_PSBL :INSERT PACKET IN POST PROCESS QUEUE  
 C5 11 0081 168 SOFTINT #IPL\$\_IOPOST :INITIATE SOFTWARE INTERRUPT  
 BRB 20\$ :  
 0083 170  
 50 01 3C 0083 171 40\$: MOVZWL S^#SSS\_NORMAL,R0 :SET NORMAL COMPLETION STATUS  
 0086 172 50\$: SETIPL #0 :ALLOW INTERRUPTS  
 04 0089 173 RET :  
 008A 174  
 50 0088 C5 DO 008A 175 70\$: MOVL UCBSL\_DDT(R5),R0 :GET ADDRESS OF DDT  
 53 58 A5 DO 008F 176 MOVL UCBSL\_IRP(R5),R3 :GET CURRENT I/O PACKET ADDRESS  
 52 57 DO 0093 177 MOVL R7,R2 :SET CHANNEL INDEX  
 0096 178 :  
 0096 179 : WARNING - Some drivers do a RET from the driver CANCEL I/O ROUTINE, in error  
 cases.  
 0096 180 :  
 0096 181 :  
 01 0C B0 16 0096 182 JSB ADDT\$L\_CANCEL(R0) :CALL CANCEL I/O ROUTINE  
 40 A5 91 0099 183 CMPB UCBSB\_DEVCLASS(R5), #DCS\_DISK :IS THIS A DISK?  
 E4 13 009D 184 BEQL 40\$ :ALL DONE IF SO  
 50 0A A6 3C 009F 185 MOVZWL CCB\$W\_IOC(R6),R0 :GET OUTSTANDING I/O COUNT  
 50 04 A6 C8 00A3 186 BISL UCBSL\_WIND(R6),R0 :OUTSTANDING I/O OR FILE ACTIVITY?  
 DA 13 00A7 187 BEQL 40\$ :IF EQL NO  
 D5 38 A5 13 E1 00A9 188 BBC #DEV\$V\_MNT,UCBSL\_DEVCHAR(R5),40\$ :IF CLR, DEVICE DISMOUNTED  
 D0 38 A5 18 E0 00AE 189 BBS #DEV\$V\_FOR,UCBSL\_DEVCHAR(R5),40\$ :IF SET, MOUNTED FOREIGN  
 50 04 A6 01 CB 00B3 190 BICL3 #1,UCBSL\_WIND(R6),R0 :FILE ACCESSED OR PROCESS SECTION?  
 C9 14 00B8 191 BGTR 40\$ :IF GTR PROCESS SECTION  
 05 13 00BA 192 BEQL 80\$ :IF EQL NO FILE ACCESSED  
 C2 0B A0 02 E0 00BC 193 BBS #WCBSV\_NOTFCP,WCBSB\_ACCESS(R0),40\$ :IF SET, NOT ACP ACCESS  
 51 1C 3C 00C1 194 80\$: MOVZWL #SSS\_EXQUOTA,R1 :SET EXCEEDED QUOTA STATUS  
 50 01 3C 00C4 195 MOVZWL #RSNS\_ASTWAIT,R0 :SET AST WAIT RESOURCE WAIT NUMBER  
 3A A4 B5 00C7 196 TSTW PCBSW\_BIOCNT(R4) :BUFFERED I/O QUOTA EXCEEDED?  
 12 13 00CA 197 BEQL 90\$ :IF EQL YES  
 51 C4 8F 9A 00CC 198 MOVZBL #IRPSL\_LENGTH,R1 :SET LENGTH OF I/O PACKET

SYS CANCEL  
V04-000

- SYSTEM SERVICE CANCEL I/O ON CHANNEL 16-SEP-1984 01:44:48 VAX/VMS Macro V04-00  
CANCEL I/O ON CHANNEL 5-SEP-1984 03:49:13 [SYS-SRC]SYSCANCEL - MAR:1

1

16-SEP-1984 01:44:48  
5-SEP-1984 03:49:13

VAX/VMS Macro V04-00  
[SYS-SRC]SYSCANCEL-MAR-1

Page 5  
(1)

SYS  
V04

	FF2D'	30	0000	199	BSBW	EXESALONONPAGED	:ALLOCATE I/O PACKET
51	1A 50	E8	00D3	200	BLBS	R0,100\$	:IF LBS SUCCESSFUL ALLOCATION
	0124 8F	3C	00D6	201	MOVZWL	#SS\$ INSFMEM,R1	:SET INSUFFICIENT MEMORY STATUS
	50 03	3C	00DB	202	MOVZWL	#RSNS NPDYNMEM, R0	:SET NONPAGED DYNAMIC MEMORY RESOURCE NUMBER
06 24 A4	0A	E0	00DE	203	90\$:	BBS #PCBS\$0 SSRWAIT,PCBSL_STS(R4)	:SET, 95\$ ;IF SET, NO WAIT
	+F1A'	30	00E3	204	BSBW	SCH\$RWAIT	:WAIT FOR RESOURCE
	FF40	31	00E6	205	BRW	10\$	:TRY AGAIN
			00E9	206	95\$:	SETIPL #0	:ALLOW INTERRUPTS
	50 51	D0	00EC	207	MOVL	R1,R0	:SET COMPLETION STATUS
		04	00EF	208	RET		
	3A A4	B7	00FO	209	100\$:	DECW PCBSW_BIOCNT(R4)	:UPDATE BUFFERED I/O COUNT
	0A A6	B6	00F3	210	INCW	CCBSW_IOC(R6)	:INCREMENT I/O COUNT
	53 52	D0	00F6	211	MOVL	R2,R3	:COPY ADDRESS OF I/O PACKET
	52 08	C0	00F9	212	ADDL	#IRPSW_SIZE,R2	:CALCULATE ADDRESS OF PACKET SIZE
82	C4 8F	9B	00FC	213	MOVZBW	#IRPSW_LENGTH,(R2)+	:INSERT SIZE OF I/O REQUEST PACKET
82	82 0A	9B	0100	214	MOVZBW	#DYNSC_IRP,(R2)+	:INSERT DATA STRUCTURE TYPE AND ZERO MODE
82	60 A4	D0	0103	215	MOVL	PCBSL_PID(R4),(R2)+	:INSERT CURRENT PROCESS ID
82	82 82	7C	0107	216	CLRQ	(R2)+	:CLEAR AST ADDRESS AND PARAMETER
82	04 A6	D0	0109	217	MOVL	CCBSL_WIND(R6),(R2)+	:INSERT ADDRESS OF WINDOW
82	82 55	D0	010D	218	MOVL	R5,(R2)+	:INSERT DEVICE UCB ADDRESS
82	82 38	B0	0110	219	MOVW	#I0\$ ACPCONTROL,(R2)+	:INSERT I/O FUNCTION CODE
82	00 8F	90	0113	220	MOVB	#EXESC_SYSEFN,(R2)+	:SET EVENT FLAG NUMBER
82	2F A4	90	0117	221	MOVB	PCBSB_PRIB(R4),(R2)+	:INSERT PROCESS BASE PRIORITY
82	82 82	D4	011B	222	CLRL	(R2)+	:CLEAR I/O STATUS BLOCK ADDRESS
82	82 57	B0	011D	223	MOVW	R7,(R2)+	:INSERT CHANNEL NUMBER
82	82 01	B0	0120	224	MOVW	#IRPSM_BUFI0,(R2)+	:INSERT PACKET STATUS
58 A3	008C C4	D0	0125	226	CLRQ	(R2)+	:CLEAR BUFFER PARAMETERS
50	34 A5	D0	012B	227	MOVL	PCBSL_ARB(R4),IRPSL_ARB(R3) ;GET ACCESS RIGHTS BLOCK ADDRESS	
	OC A0	B6	012F	228	MOVL	UCBSL_VCB(R5),R0	:GET ADDRESS OF VCB
			0132	229	INCW	VCBSW_TRANS(R0)	:UPDATE TRANSACTION COUNT
			0132	230			
			0132	231			
52	53 FEC8'	D0	0132	232	MOVL	R3,R2	:SET ADDRESS OF I/O REQUEST PACKET
		30	0135	233	BSBW	PMSS\$START_RQ	:INSERT START OF I/O REQUEST MESSAGE
			0138	234			
			0138	235			
FEC5'	31	0138	236		.ENDC		
		0138	237		BRW	EXESQIOACPPKT	:QUEUE ACP PACKET
		0138	238				
		0138	239		.DSABL	LSB	
		0138	240				
		0138	241		.END		

SYSCANCEL  
Symbol table

CANSC\_CANCEL  
 CCB\$K\_LENGTH  
 CCB\$L\_UCB  
 CCB\$L\_WIND  
 CCB\$W\_IOC  
 CHAN  
 CODE  
 DCS\_DISK  
 DDT\$L\_CANCEL  
 DEV\$V\_FOR  
 DEV\$V\_MNT  
 DYN\$C\_IRP  
 EXES\$A\$ON\$ON\$PAGED  
 EXES\$CANCEL  
 EXES\$CANCEL\_N  
 EXES\$C\_SYSEFN  
 EXES\$QIOACPPKT  
 IOS\_ACPCONTROL  
 IOCS\$GL\_PSL  
 IOCS\$VERIFYCHAN  
 IPL\$\_ASTDEL  
 IPL\$\_IOPOST  
 IRP\$C\_LENGTH  
 IRP\$L\_ARB  
 IRP\$L\_IQBL  
 IRP\$L\_IQFL  
 IRP\$L\_MEDIA  
 IRP\$L\_PID  
 IRPS\$M\_BUFI0  
 IRPS\$M\_FUNC  
 IRPS\$V\_BUFI0  
 IRPS\$V\_VIRTUAL  
 IRPS\$W\_CHAN  
 IRPS\$W\_SIZE  
 IRPS\$W\_STS  
 NARG  
 PCBS\$B\_PRIB  
 PCBS\$L\_ARB  
 PCBS\$L\_PID  
 PCBS\$L\_STS  
 PCBS\$V\_SS\$RWAIT  
 PCBS\$W\_BIOCNT  
 PMSS\$START\_RQ  
 PR\$\_IPL  
 PR\$\_SIRR  
 RSNS\$ASTWAIT  
 RSNS\$NP\$DYNMEM  
 SCH\$SRWAIT  
 SSS\$CANCEL  
 SSS\$EXQUOTA  
 SSS\$INSFMEM  
 SSS\$NORMAL  
 UCB\$B\_DEVCLASS  
 UCB\$B\_FIPL  
 UCB\$L\_DDT  
 UCB\$L\_DEVCHAR  
 UCB\$L\_IQFL

M 3

- SYSTEM SERVICE CANCEL I/O ON CHANNEL      16-SEP-1984 01:44:48    VAX/VMS Macro V04-00  
     5-SEP-1984 03:49:13    [SYS.SRC]SYSCANCEL.MAR;1

= 00000000	UCB\$L_IRP	= 00000058
= 00000010	UCB\$L_VCB	= 00000034
= 00000000	VCB\$W_TRANS	= 0000000C
= 00000004	WCBS\$B_ACCESS	= 00000008
= 0000000A	WCBS\$V_NOTFCP	= 00000002
= 00000004		
= 00000008		
= 00000001		
= 0000000C		
= 00000018		
= 00000013		
= 0000000A		
***** X 01		
0000000F RG 01		
00000000 RG 01		
***** X 01		
***** X 01		
= 00000038		
***** X 01		
***** X 01		
= 00000002		
= 00000004		
= 000000C4		
= 00000058		
= 00000004		
= 00000000		
= 00000038		
= 0000000C		
= 00000001		
= 00000002		
= 00000000		
= 00000004		
= 00000028		
= 00000008		
= 0000002A		
= 00000000		
= 0000002F		
= 00C0008C		
= 00000060		
= 00000024		
= 0000000A		
= 0000003A		
***** X 01		
= 00000012		
= 00000014		
= 00000001		
= 00000003		
***** X 01		
= 00000830		
= 00000010		
= 00000124		
= 00000001		
= 00000040		
= 00000008		
= 00000088		
= 00000038		
= 0000004C		

! Psect synopsis !

## PSECT name

	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
: BLANK :	0000013B ( 315.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

## Phase

	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.03	00:00:02.02
Command processing	111	00:00:00.53	00:00:05.19
Pass 1	489	00:00:19.40	00:01:01.39
Symbol table sort	0	00:00:03.38	00:00:10.12
Pass 2	66	00:00:02.95	00:00:10.62
Symbol table output	8	00:00:00.10	00:00:00.10
Psect synopsis output	2	00:00:00.03	00:00:00.26
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	708	00:00:26.43	00:01:30.00

The working set limit was 1500 pages.

110437 bytes (216 pages) of virtual memory were used to buffer the intermediate code.  
There were 120 pages of symbol table space allocated to hold 2259 non-local and 11 local symbols.  
241 source lines were read in Pass 1, producing 18 object records in Pass 2.  
78 pages of virtual memory were used to define 27 macros.

! Macro library statistics !

## Macro library name

	Macros defined
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	15
\$255\$DUA28:[SYSL!B]STARLET.MLB;2	9
TOTALS (all libraries)	24

2393 GETS were required to define 24 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSCANCEL/OBJ=OBJ\$:SYSCANCEL MSRC\$:SYSCANCEL/UPDATE=(ENH\$:SYSCANCEL)+EXECMLS/LIB

0382 AH-BT13A-SE  
VAX/VMS V4.0

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